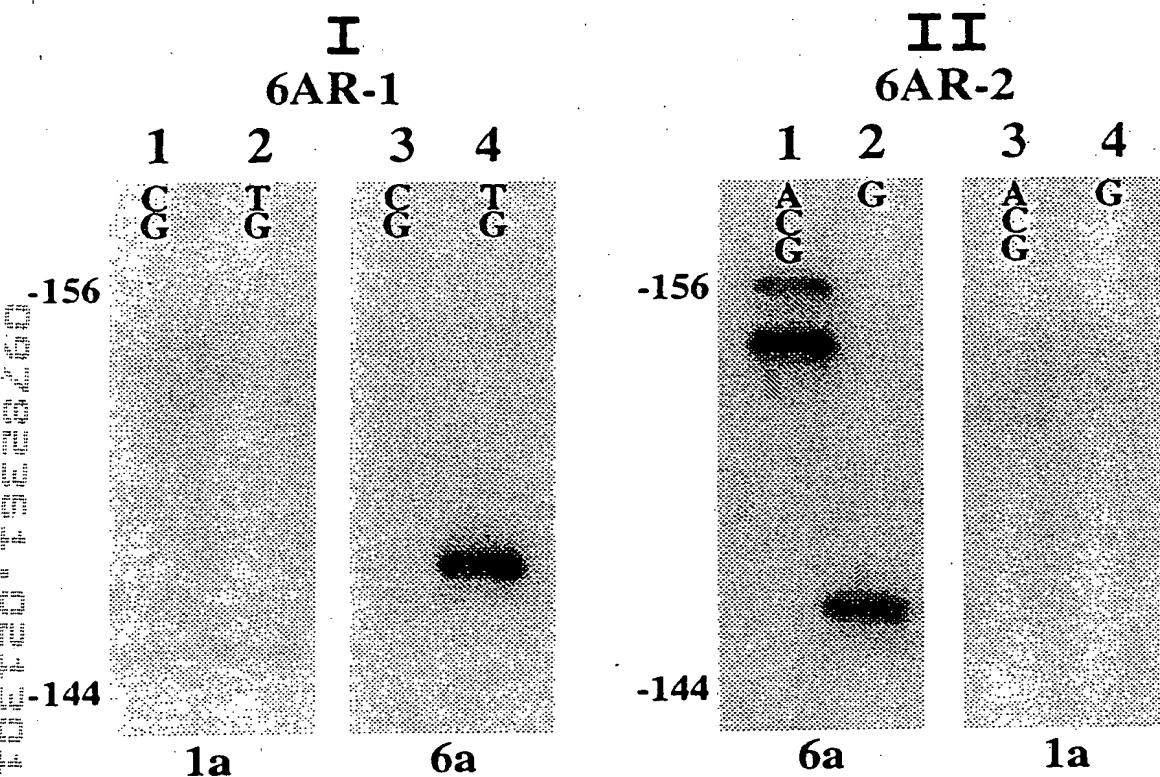


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-157                    -145                    -144  
 1a 5'---AGGACCGGGTCCTTTC (.) TTGG-----3' (SEQ. ID. NO. 43)

I-1                    X ← 6AR-1 5' C, G  
 I-2                    X ← 6AR-1 5' G, T

6a 5'---AGGACCGGGTCCTTTC (C A) TTGG-----3' (SEQ. ID. NO. 44)

I-3                    X ← 6AR-1 5' C, G  
 I-4                    XXG G T ← 6AR-1 5' G, T

6a 5'---AGGACCGGGTCCTTTC (C A) TTGG-----3' (SEQ. ID. NO. 45)

II-1                    XGGCCCAGGAAAG G ← 6AR-2 5' A, C, G (SEQ. ID. NO. 46)  
 II-2                    XXG G ← 6AR-2 5' G

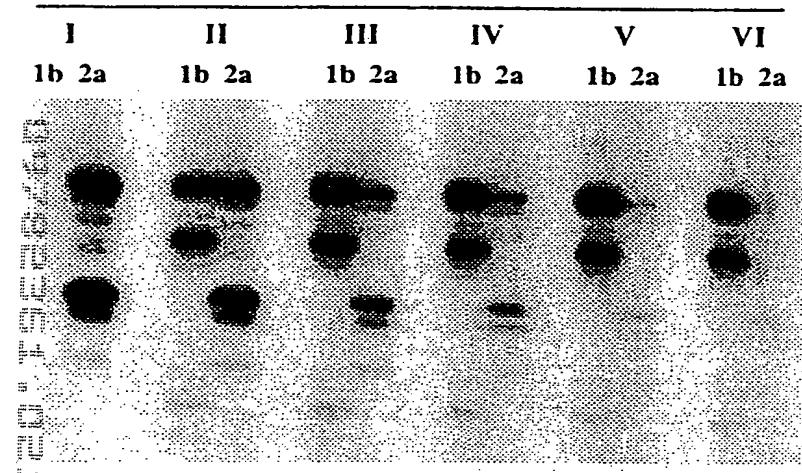
1a 5'---AGGACCGGGTCCTTTC (.) TTGG-----3' (SEQ. ID. NO. 47)

II-3                    X ← 6AR-2 5' A, C, G  
 II-4                    X ← 6AR-2 5' G

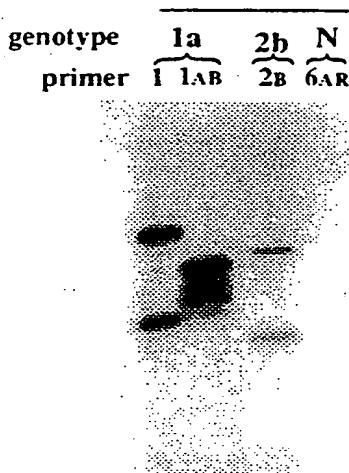
F I S E - 2

3/10

A



B



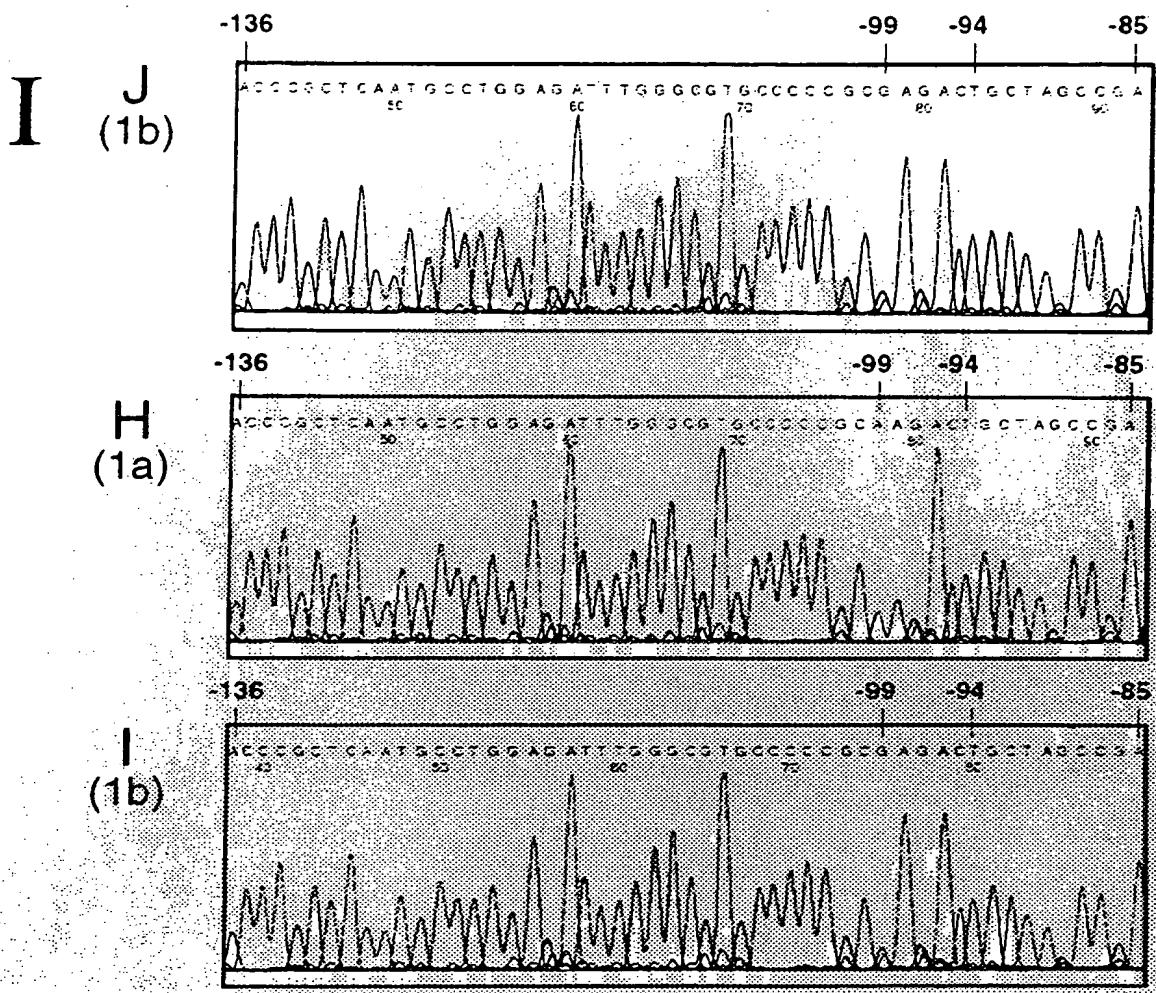
A,

G(2a)

T(1b)

100%	2a	TGCCCGGGCATAGAGTGCGGTTTATCCAAGAAAGGACCCAGTCCTTCCTG (SEQ. ID. NO. 48)
1b		TCTCCAGGCATTGAGCGGGTTGATCCAAGAAAGGACCCGGTCGTCCCTG (SEQ. ID. NO. 49)
50%	2a	-N-----A-----T-----
25%	2a	-C-----A-----A-----N-----
12.5%	2a	-G-----A-----E-----C-----
6.25%	2a	-N-----A-----E-----C-----
3.25%	2a	-C-----A-----E-----C-----
		G(2a)G(2a) A(2a) T(2a) T(1b+2a)
		C(1b)A(1b) T(1b) C(1b) G(1b)
		A(2a)T(2a)C(2a) G(1b)G(1b)T(1b)

7 x - 3

**II****J**  
(1b)**H**  
(1a)**I**  
(1b)

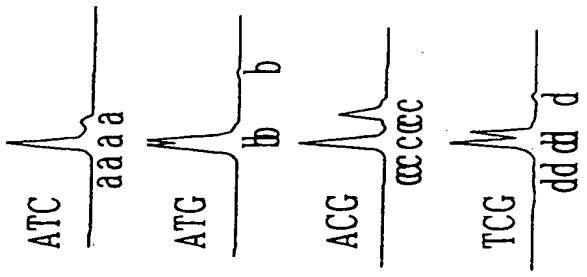
1AB 1 1BR 1AB 1 1BR 1AB 1 1BR

~~1~~ 4

## dNTPs

### Expected base extension

ATC	<u>Primer → T CAXX</u>	3
ATG	<u>Primer → T X-XX</u>	1
ACG	<u>Primer → X-X</u>	0
TCG	<u>Primer → T CX--X</u>	2
WT----	<u>-A GTCCACATCCT----- (SEQ ID NO:16)</u>	
ATC	<u>Primer → X X</u>	0
ATG	<u>Primer → G XX</u>	1
ACG	<u>Primer → G CAGGX-X</u>	5
TCG	<u>Primer → G CX--X</u>	2
MU----	<u>-C GTCCACATCCT----- (SEQ ID NO:17)</u>	



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T - 5A

T - 5B

3' AGACAGTATGATCAGGTACTCATAGAAATCTGGACATAAAGC 5'  
5' PRO63L (G) -R (SEQ ID NO:19)

X

3' GAGTATCTTAGACACCTGTATTTCG 5' L63P + PRIMER (2) (SEQ ID NO:20)  
5' AGACAGTATGATCAGGTACCCATAGAAATCTGGACATAAAGC 3' PRO63L (G) -R (SEQ ID NO:21)

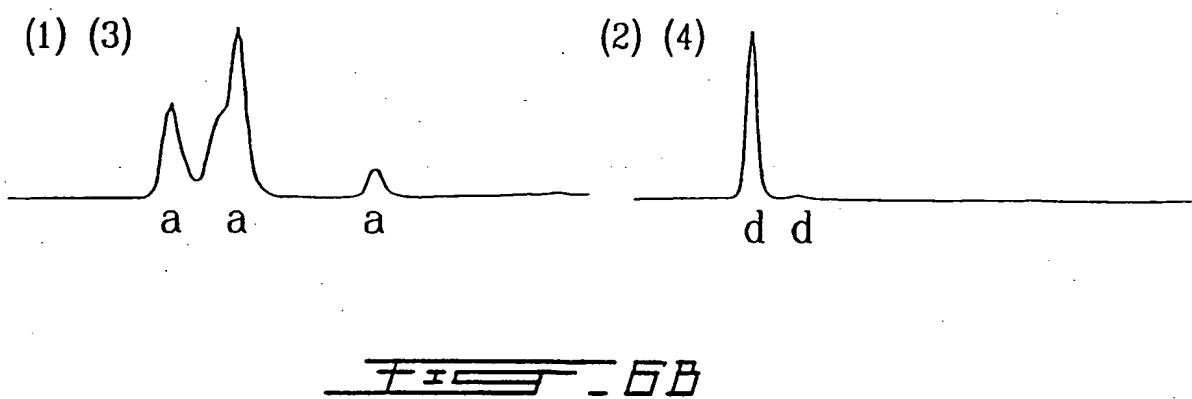
6/  
3' XTCATACTTACATGAGTATCTTTAGACACCTGTATTTCG 5' L63P + PRIMER (3) (SEQ ID NO:22)  
5' AGACAGTATGATCAGGTACCCATAGAAATCTGGACATAAAGC 3' PRO63P (G) -R (SEQ ID NO:21)

X

3' GGGTATCTTAGACACCTGTATTTCG 5' L63 + PRIMER (4) (SEQ ID NO:23)  
5' AGACAGTATGATCAGGTACTCATAGAAATCTGGACATAAAGC 3' PRO63P (G) -R (SEQ ID NO:19)

TA - EA

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3'   **XX**A~~GACTTCTGAGTCTAACCAACGTGAAATTAA~~ 5' PRO90L-R   (1) (SEQ ID NO: 24)  
5'   --AATCTGAAGACTCAGATTGGATTGCACTTAAAT---3'   L90 (SEQ ID NO: 25)

X

3'   TTCTGAGTCTAACCAACGTGAAATTAA 5' PRO90L-R   (2) (SEQ ID NO: 26)  
5'   --AATCTGATGACTCAGATTGGTTGCACTTAAAT--3'   L90M (SEQ ID NO: 27)

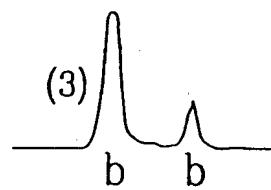
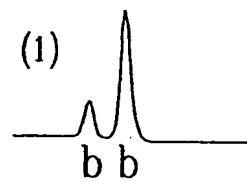
5'   CTGTCAACATAATTGGAAGAAATCTGAT**GACGCCAGAXX** 3' PRO90M-F   (3) (SEQ ID NO: 28)  
3'   --GACAGTTGTATTAAACCTTCTTAGACTACTGCGTCTAA---5' L90M   (SEQ ID NO: 29) *O*

X

5'   CTGTCAACATAATTGGAAGAAATCTGAT 3'   PRO90M-F   (4) (SEQ ID NO: 30)  
3'   --GACAGTTGTATTAAACCTTCTTAGACAACTGAGTCTAA--5' L90 (SEQ ID NO: 31)

TTC - 7A

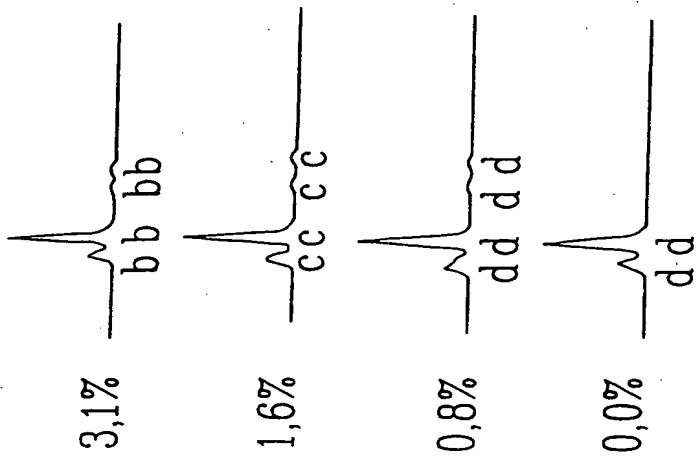
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7E - 7B

10/10

.....



→ T AGTTGTATTAAAXX (SEQ ID NO: 32)  
----- A TCAACATAATTGAAAGA (SEQ ID NO: 33)  
→ X  
----- G

T I E - B